

PROCEDURE FOR CALIBRATING, STANDARDIZING OR CHECKING EQUIPMENT

Original 08/03, Revised 8/21/08, 5/11

PROCEDURE #75

Equipment Checked:

SAND EQUIVALENT APPARATUS

T 176, SD 221

Purpose:

To provide instructions for checking critical dimensions and general operating condition of the sand equivalent shaker, irrigator tube, cylinders, weighted foot and height of shelf.

Inspection Equipment Required:

1. Timer readable to 0.01 sec.
2. Tape measure readable to $\frac{1}{16}$ ".
3. Scale readable to 0.1 g.
4. Caliper readable to 0.0005", (0.01 mm)

Tolerance:

The tolerances for sand equivalent apparatus can be found in the test methods listed above.

Procedure:

1. With the tape measure, measure from the top of the working surface to the top of the shelf where the solution sits. Record the height.
2. Measure the height of the liquid to the top of the working surface. Record the distance.
3. Measure the diameter and length of the irrigator tube. Record.
4. Record the weight of the foot.
5. With a caliper measure the diameter of the foot.
6. With the timer check the cycles per minute of the shaker. Record RPM.
7. With a caliper record the inner diameter of the cylinders and with the tape measure check the increments shown in inches stamped on the outside of the cylinder for accuracy.